

1087

PTO/SB/08A (08-03)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/605,319
	Filing Date	September 22, 2003
	First Named Inventor	David G. GRIER
	Art Unit	2872
	Examiner Name	Arnel C. Lavarias
Attorney Docket Number	71480.00011	
Sheet 1 of 7		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
ALL		US- 5,452,123	09-1995	Asher et al.	359/296
ALL		US- 5,445,011	08-1995	Ghislain et al.	73/105
ALL		US- 5,374,556	12-1994	Bennett et al.	435/283.1
ALL		US- 5,364,744	11-1994	Buican et al.	430/321
ALL		US- 5,355,252	10-1994	Haraguchi	359/369
ALL		US- 5,343,038	08-1994	Nishiwaki et al.	250/234
ALL		US- 5,245,466	09-1993	Burns et al.	359/296
ALL		US- 5,079,169	01-1992	Chu et al.	436/174
ALL		US- 5,029,791	07-1991	Ceccon et al.	248/287.1
ALL		US- 4,827,125	05-1989	Goldstein	250/234
ALL		US- 4,627,689	12-1986	Asher	359/296
ALL		US- 3,808,432	04-1974	Ashin	250/251
ALL		US- 3,793,541	02-1974	Ashkin et al.	372/3
ALL		US- 3,710,279	01-1973	Ashkin	250/281
ALL		US- 5,327,515	07-1994	Anderson et al.	385/123
ALL		US- 5,113,286	05-1992	Morrison	359/569
ALL		US- 5,473,471	12-1995	Yamagata et al.	359/569
ALL		US- 5,629,802	05-1997	Clark	359/573
ALL		US- 4,127,329	11-1978	Chang et al.	356/301

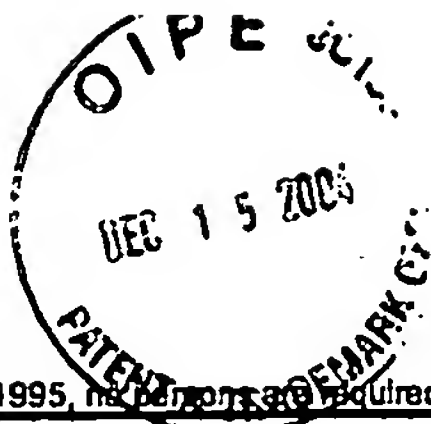
FOREIGN PATENT DOCUMENTS						
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		Country Code ³ * Number ⁴ * Kind Code ⁵ (if known)				
ALL		JP 5-88107	04-1993	Ogasawara	Abstract	
ALL		JP 9-89780	04-1997	Ysuda et al.	Abstract	

Examiner Signature	Arnel C. Lavarias	Date Considered	3/9/05
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<i>ALL</i>		US- 5,198,369	03-1993	Itoh et al.	436/534
<i>ALL</i>		US- 5,776,674	07-1998	Ulmer	435/6
		US- 5,935,507	08-1999	Morito et al.	
<i>ALL</i>		US- 6,076,732	06-2000	Lan et al.	235/457
<i>ALL</i>		US- 5,574,597	11-1996	Kataoka	359/369
<i>ALL</i>		US- 5,798,784	08-1998	Nonaka et al.	347/243
<i>ALL</i>		US- 5,953,166	09-1999	Shikano	359/837
		US- 5,939,716	08-1999	Neal	
<i>ALL</i>		US- 5,952,651	09-1999	Morito et al.	250/251
		US- 5,689,109	11-1997	Raimund Schütze	
<i>ALL</i>		US- 5,512,745	04-1996	Jeffrey et al. <i>Finer et al.</i>	250/251
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		<i>NOVE</i>			

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AL		Patent Abstracts of Japan Vol. 1996, No. 9, 30 September 1996 & JP 08-131820A (Moritetsukusu:KK), 28 May 1996 *abstract*	
AL		WO 91 19413 A (Res Corp Technologies Inc.) 12 December 1991, page 18, paragraphs 2,3	
AL		N.R. heckengberg et al., Opt & Quant. Elect., vol. 24, S951 (1992)	
AL		H He, NR Heckenberg, and H Rubinsztain-Dunlop, J Mod Optics 42, 217-223 (1995)	
AL		H He, MEJ Friese, NR Heckenberg, and H Rubinsztain-Dunlop, Phys Rev Let 75 826-829 (1995)(and references therein)	
AL		MEJ Friese, J Enger, H Runbinsztain-Dunlop and NR Heckenberg, Phys Rev A 54 1593-1596 (1996)	
AL		KT Gahagan and GA Swartlander, Optics Letters 21 827-829 (1996)	
AL		KT Gahagan and GA Swartlander, J Opt Soc Am B-15 524-534 (1998)	
AL		D'Henlon et al., J Modern Optics 595-601 (1994)	
AL		H. Dammann and K. Gortler, Optics Comm. 3 312-318 (1971)	

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		Examiner Name	Arnel C. Lavarias
Sheet 4	of 7	Attorney Docket Number	71480.00011

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AC		M.P. Dames, R.J. Dowling, P. McKee and D. Wood, 30 2685 (1991)	
AC		SE Broomfield et al., Electronics Letters 28, 26-28 (1992)	
AC		J Gourlay, S. Samus et al., Applied Optics 33, 8251-8254 (1994)	
AC		H. Misawa et al., "Multibeam Laser Manipulation and Fixation of Microparticles", Appl. Phys. Lett., Vol. 60, No. 3, pp. 310-312, January 20, 1992	
AC		Mogensen et al., "Dynamic Array Generation and Pattern Formation for Optical Tweezers", Feb. 25, 2000, Optics Comm., pp. 75-81	

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AG		D.G. Grier, "Description of Optical Tweezer Arrays and Optical Substrates Created with Diffractive Optical Elements", pp. 1-6, Dec. 22, 1997.	
		E.R. Dufresne and D.G. Grier, "Optical Tweezer Arrays and Optical Substrates Created with Diffractive Optics", pp. 1-6, Nov. 12, 1997.	
AG		J.H. Holtz and S.A. Asher, "Polymerized Colloidal Crystal Hydrogel Films as Intelligent Chemical Sensing Materials", Nature, Vol. 389, pp. 829-832, Oct. 23, 1997.	
AG		E.R. Dufresne and D.G. Grier, "Embraced by the Light: Diffractive Optical Substrates and the Hexadeca Tweezer", pp. 1-4, Oct. 22, 1997.	
AG		D.G. Grier, "New Age Crystals", pp. 1-2, Oct. 14, 1997.	
AG		A. Ashkin, "Optical Trapping and Manipulation of Neutral Particles Using Lasers", Proc Natl. Acad. Sci. USA, Vol. 94, 00. 4853-4860, May 1997.	
AG		E. Fallman and O. Axner, "Design for Fully Steerable Dual-Trap Optical Tweezers", Applied Optics, Vol. 36, No. 10, pp. 2107-2113, Apr. 1, 1997.	
AG		A. van Blaaderen, R. Ruel, P. Wiltzius, "Template-Directed Colloidal Crystallization", Nature, Vol. 385, pp. 321-324, Jan. 23, 1997.	
AG		Visscher, et al. "Construction of Multiple-Beam Optical Traps with Nanometer-Resolution...", IEEE Jnl. of Sel. Topics in Quantum Elec., Vol 2, No 4, pp 1066-1075, Dec 1996.	
AG		A. Suzuki, T. Ishii, Y. Maruyama, "Optical Switching in Polymer Gels", J. Appl. Phys. 80(1), pp. 131-136, July 1, 1996.	

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AC		Xiang et al., "A Combinatorial Approach to Materials Discovery", Science, Vol. 268, pp. 1738-1740, June 23, 1995.	
AC		C. A. Murray and D. G. Grier, "Colloidal Crystals", American Scientist, Vol. 83, pp. 238-245, May-June 1995.	
AC		Mason and Weitz, "Optical Measurements of Frequency-Dependent Linear Viscoelastic Moduli of Complex Fluids", Phys. Rev. Letters, Vol. 74, No. 7, pp. 1250-1253, Feb. 13, 1995.	
AC		Crocker and Grier, "Microscopic Measurement of the Pair Interaction Potential of Charge-Stabilized Colloid", Phys. Rev. Letters, Vol. 73, No. 2, pp. 352-355, July 11, 1994.	
AC		K. Sasaki et al., "Optical Micromanipulation of a Lasing Polymer Particle in Water", Jpn. J. Appl. Phys., Vol. 32, Part 2, No. 8B, pp. L 1144-L 1147, Aug. 15, 1993.	
AC		R. S. Afzal and E. B. Treacy, "Optical Tweezers Using a Diode Laster", Rev. Sci. Instrum. 63(4), pp. 2157-2163, April 1992.	
AC		A. Ashkin, "Forces of a Single-Beam Gradient Laser Trap on a Dielectric Sphere in the Ray Optics Regime", Biophysical Journal, Vol. 61, pp. 569-582, Feb. 1992.	
		K. Sasaki et al., "Pattern Formation and Flow Control of Fine Particles by Laser-Scanning Micromanipulation", Optics Letters, Vol. 16, No. 19, pp. 1463-1465, Oct. 1, 1991.	
AC		K. Sasaki et al., "Laser-Scanning Micromanipulation and Spatial Patterning of Fine Particles", Japanese Journal of Applied Physics, Vol. 31, No. 5B, pp. L 907-L 909, May 1991.	
AC		H. Misawa et al., "Spatial Pattern Formation, Size Selection, and Directional Flow of Polymer Latex Particles by Laser Trapping Technique", Chemistry Letters, 469-472, 1991.	

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AL		M. M. Burns et al., "Optical Matter: Crystallization and Binding in Intense Optical Fields", Science, Vol. 249, pp. 749-754, Aug. 17, 1990.	
AL		M. M. Burns et al., "Optical Binding", Physical Review Letters, Vol. 63, No. 12, pp. 1233-1236, Sept. 18, 1989.	
AL		A. Ashkin et al., "Optical Trapping and Manipulation of Single Cells Using Infrared Laser Beams", Nature, Vol. 330, pp. 769-771, Dec. 24/31, 1987.	
AL		A. Ashkin et al., "Observation of a Single-Beam Gradient Force Optical Trap for Dielectric Particles", Optics Letters, Vol. 11, No. 5, pp. 288-290, May 1986.	
AL		A. Chowdhury, B. J. Ackerson, N. Clark, "Laser-Induced Freezing", Physical Review Letters, Vol. 55, No. 8, pp. 833-836, Aug. 19, 1985.	
AL		Fournier et al., "Writing Diffractive Structures by Optical Trapping", SPIE Vol. 2406, pp. 101-111.	
AL		Cell Robotics LaserTweezers 1000 Series, by Cell Robotics Inc.	
AL		Chiou, Arthur E. et al., "Interferometric optical tweezers," Optics Comm., 01 January 1997, Vol. 122, pp. 7-10	

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